

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

APPLICANT: Jitariouk et al.  
SERIAL NO.: [not yet assigned]  
FILING DATE: October 8, 2003  
TITLE: HOLLOW MEMBRANES WITH CAPILLARY TUBES, FLUID  
TREATMENT MODULES THAT USE THEM AND METHODS  
OF MANUFACTURING THEM  
EXAMINER: [not yet assigned]  
ART UNIT: [not yet assigned]

---

**CERTIFICATE OF MAILING**

"Express Mail" mailing label no.: EV310852139US

Date of Deposit: October 8, 2003

I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail  
Post Office to Addressee" service under 37 CFR §1.10 on the date indicated above and addressed to:

Box PATENT APPLICATION, Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450, on the date  
printed below:

Name: 

Diane Morse

---

COMMISSIONER FOR PATENTS  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Each item of information listed in the attached FORM PTO-1449, for which a  
copy of each is attached, may be material to the examination of the above-identified  
application and is, therefore, submitted in compliance with the duty of disclosure defined  
in 37 CFR §§ 1.56, 1.97 and 1.98. The Examiner is requested to make these items of  
official record in this application.

This Information Disclosure Statement under 37 CFR §§ 1.56, 1.97 and 1.98 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these items constitutes prior art.

I

This statement is filed pursuant to:

(X) 37 C.F.R. § 1.97(b).

This information disclosure statement is filed either (1) within three months of the filing date of a national application other than a continued prosecution application under §1.53(d); (2) within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application; (3) before the mailing date of a first office action on the merits, or (4) before the mailing of a first office action after the filing of a Request for Continued Examination under 37 C.F.R. § 1.114, whichever event occurs last.

Accordingly, this information disclosure statement requires no fee and no certification.

( ) 37 C.F.R. § 1.97(c).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97 (b), but before the mailing date of either (1) a final action under 37 C.F.R. § 1.113; (2) a notice of allowance under 37 C.F.R. § 1.311; or (3) an action that otherwise closes prosecution in the application.

Accordingly, this information disclosure statement requires either the fee specified in 37 C.F.R. § 1.17 (p) for submission of an information disclosure statement under 37 C.F.R. § 1.97 (c) (\$180); or a certification according to 37 C.F.R. § 1.97 (e).

( ) 37 C.F.R. § 1.97(d).

This information disclosure statement is filed after the period specified in 37 C.F.R. § 1.97 (c).

Accordingly, this information disclosure statement requires the fee specified in 37 C.F.R. § 1.17 (p) to consider an information disclosure statement under 37 C.F.R. § 1.97(d) (\$180), and a certification according to 37 C.F.R. § 1.97(e).

If this statement crosses in the mail with an office action, or is otherwise not in the indicated category of 37 C.F.R. § 1.97, it is respectfully requested that this statement be treated in the next appropriate category and made of record. To the extent required, please treat this paper as a conditional petition for acceptance of the information disclosure statement.

## II

- (X) No fee is due.
- ( ) The fee specified in 37 C.F.R. § 1.17(p) for submission of an information disclosure statement under 37 C.F.R. § 1.97(c) is enclosed (\$180).

Please charge any additional required fee or credit any overpayment to our deposit account number 50-1698. An additional copy of this page is enclosed.


## III

Pursuant to 37 C.F.R. § 1.97(e) , I certify:

- (X) No certification is necessary.
- ( ) (1) Each item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the statement.
- ( ) (2) No item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c), more than three months prior to the filing of the statement.

Respectfully submitted,  
THELEN REID & PRIEST LLP

Dated: October 8, 2003

  
\_\_\_\_\_  
Thierry K. Lo  
Reg. No. 49,097

THELEN REID & PRIEST LLP  
P.O. Box 640640  
San Jose, CA 95164-0640  
(408) 292-5800

Form PTO 1449 (Rev. 2-32)				U.S. Department of Commerce Patent and Trademark Office		Atty. Docket No. 034299-000538		Serial No. [not yet assigned]	
<b>Information Disclosure Statement by Applicant</b>						Applicant: Nikolai Jitariouk et al.			
(Use several sheets if necessary)						Filed: 10/8/03		Group: Unknown	
<b>U.S. Patent Documents</b>									
Init.		Document No.	Date	Name	Class	Subclass	Filing Date		
	A	3,303,085	02/07/67	Price et al.	161	109	02/28/62		
	B	3,764,018	10/09/73	Shaw, et al.	210	500	06/15/71		
	C	3,770,532	11/06/73	Bean et al.	156	7	02/16/71		
	D	3,988,245	10/26/76	Wang	210	500	06/13/74		
	E	4,177,228	12/04/79	Proiss	264	24	06/23/78		
	F	4,530,734	07/23/85	Klima	156	628	01/17/83		
	G	4,696,835	09/29/87	Maus et al.	427	121	07/08/86		
	H	4,959,152	09/25/90	Nichols	210	651	03/24/89		
	I	5,045,357	09/03/91	Motonaga et al.	427	255	04/16/90		
	J	5,067,491	11/26/91	Taylor, II et al.	128	748	12/08/89		
	K	5,096,586	03/17/92	Kaner et al.	210	500.37	08/28/90		
	L	5,104,535	04/14/92	Cote, et al.	210	321.8	08/17/90		
	M	5,232,593	08/03/93	Pederson et al.	210	321.78	03/04/92		
	N	5,328,610	07/12/94	Rogut	210	321.8	06/15/93		
	O	6,258,271	07/10/01	Jitariouk et al.	210	500.23	10/28/98		
<b>Foreign Documents</b>									
								Translation	
Init.		Document No.	Date	Country	Class	Subclass	Yes	No	
	P	0 000 687	6/20/78	Europe	B01D 13	04		X	
	Q	0 562 303	2/27/93	Europe	B01D 67	00		X	
	R	WO 95/00238	1/5/95	PCT	B01D 63	02	X		
<b>Other Documents (Including Author, Title, Date, Pertinent Pages, etc.)</b>									
	S	P. Yu Apel, V. I. Kuznetsow, N. I. Zhitariuk, & O. L. Orelovich, "Nuclear Ultrafilters", 1995, Colloid Journal of the USSR, Vol. 47, pp. 1-5.							
	T	Flerov, G. N., "Synthese Des Elements Superlourds et Application Des Methodes De Physiques Nucleaire Dans Les Domaines Voisins.", 1984, Vestnik de l'academie des sciences de J'URSS, Vol. No. 4, pp. 35-48 (in Russian).							
	U	W. S. Winston Ho and K. K. Sirkar, "Membrane Handbook, Esq.", 1992, Van Nostrand Reinhold, New York, pp. 168-201.							
	V	S. Karoor & K. K. Sirkar, 1993, Ind. Eng. Chem. Res. 32, pp. 674-684.							
Examiner					Date Considered				
Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.									